

FIG. 1

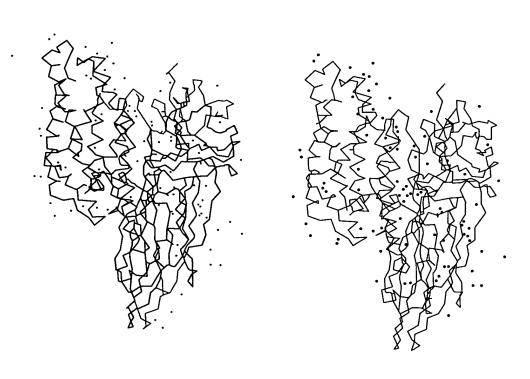


FIG. 2

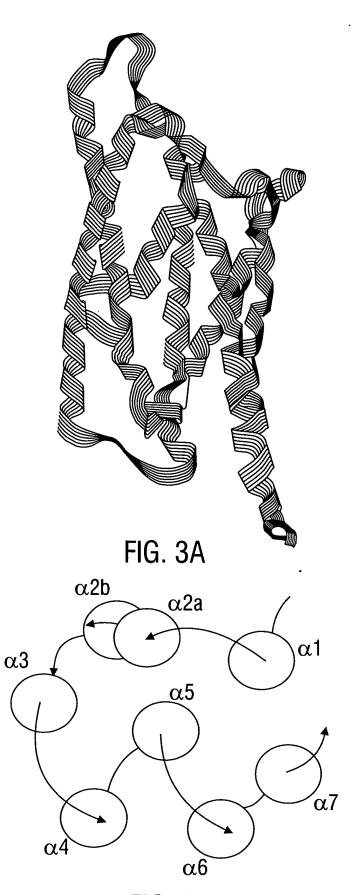


FIG. 3B

alpha helix	Amino acid Residues
$\alpha$ 1	63-79
α2a	85-98
α2b	105-118
α3	124-153
$\alpha 4$	161-186
$\alpha$ 5	194-215
$\alpha$ 6	223-255
$\alpha$ 7	260-286

FIG. 4

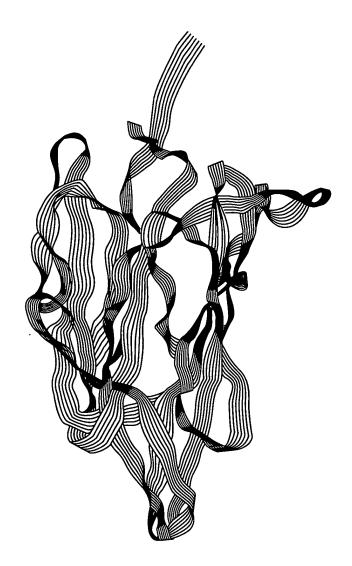
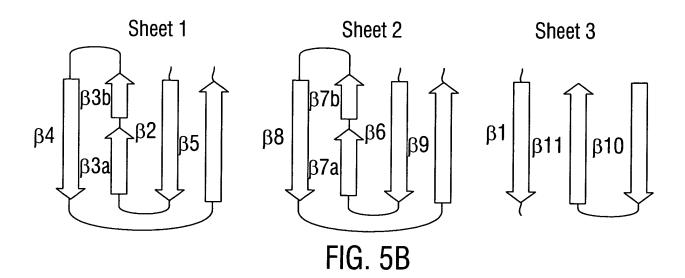


FIG. 5A



## Sheet 1

Strand	Amino Acid Residue
β2	339-350
βЗа	256-360
<b>β</b> 3b	362-368
β4	375-379
β5	390-395
	β2 β3a β3b β4

## Sheet 2

β	Strand	Amino	Acid	Residue
	β6	4	02-41	2
	β7a	4	16-41	9
	β7b	4	23-43	0
	β8	4	35-44	2
	β9	4	52-45	6

#### Sheet 3

eta Strand	Amino Acid Residue
β1	296-306
β10	472-483
B11	492-498

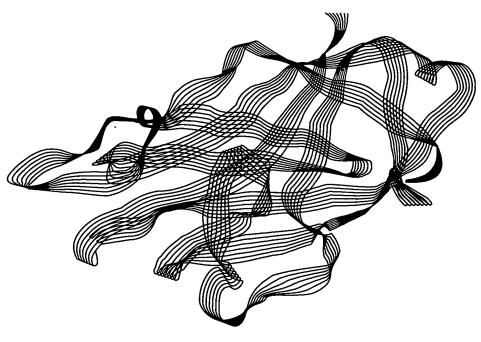
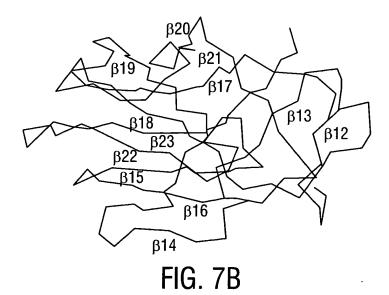
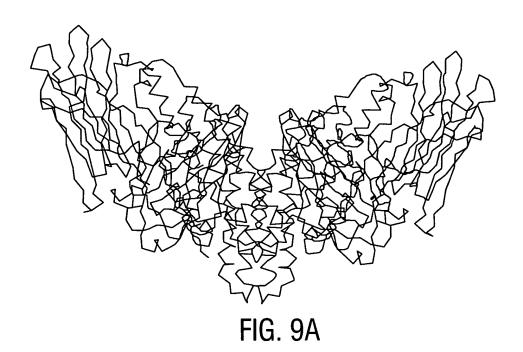


FIG. 7A



Strand Number	Amino Acid Residues				
β12	505-509				
<b>β</b> 13	512-515				
β14	522-528				
β15	539-544				
β16	550-557				
β17	563-574				
β18	578-584				
β19	590-596				
β20	609-614				
β21	616-619				
β22	626-636				
β23	638-650				

FIG. 8



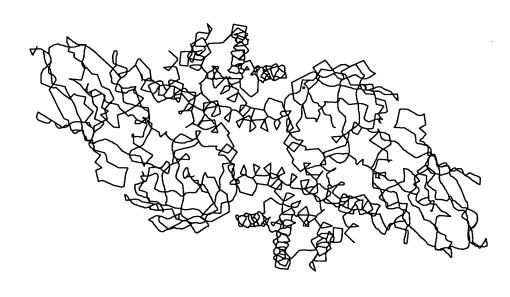


FIG. 9B

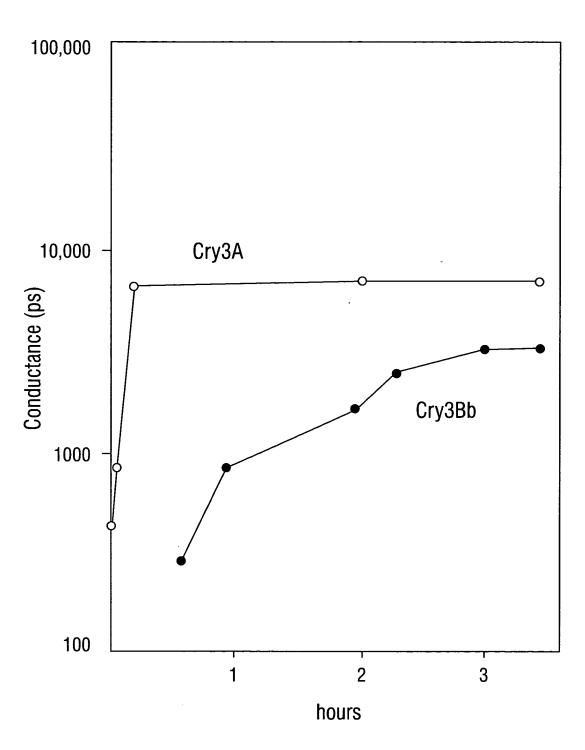
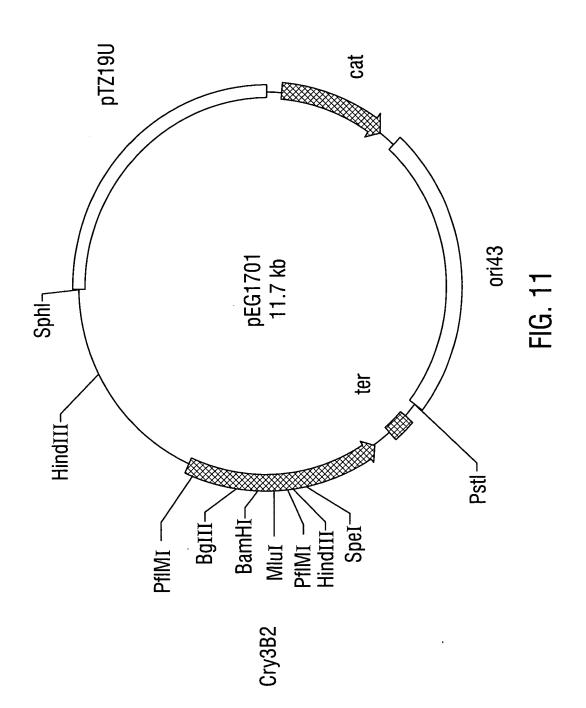
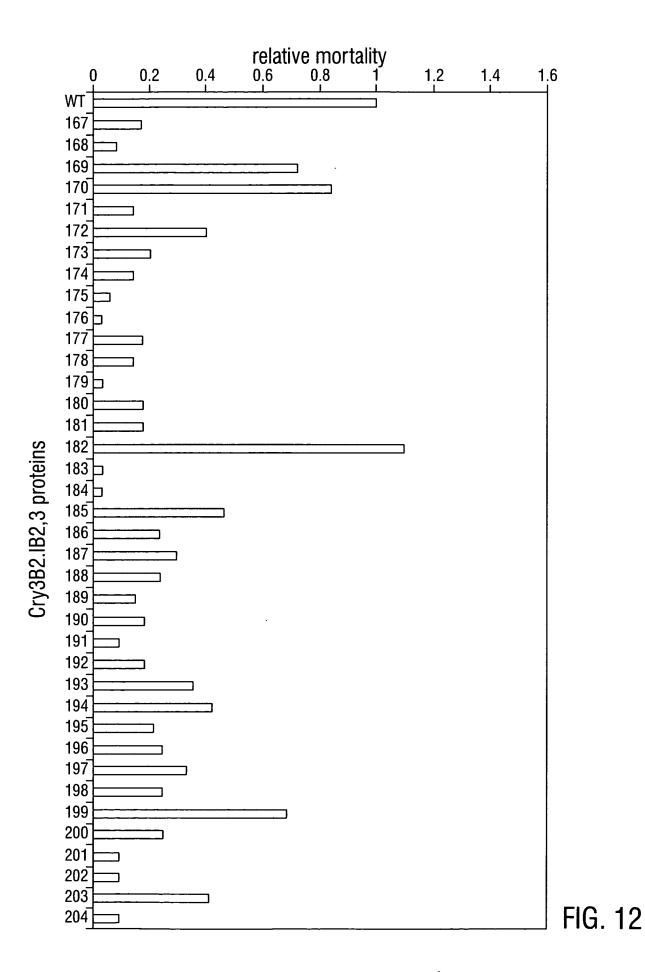
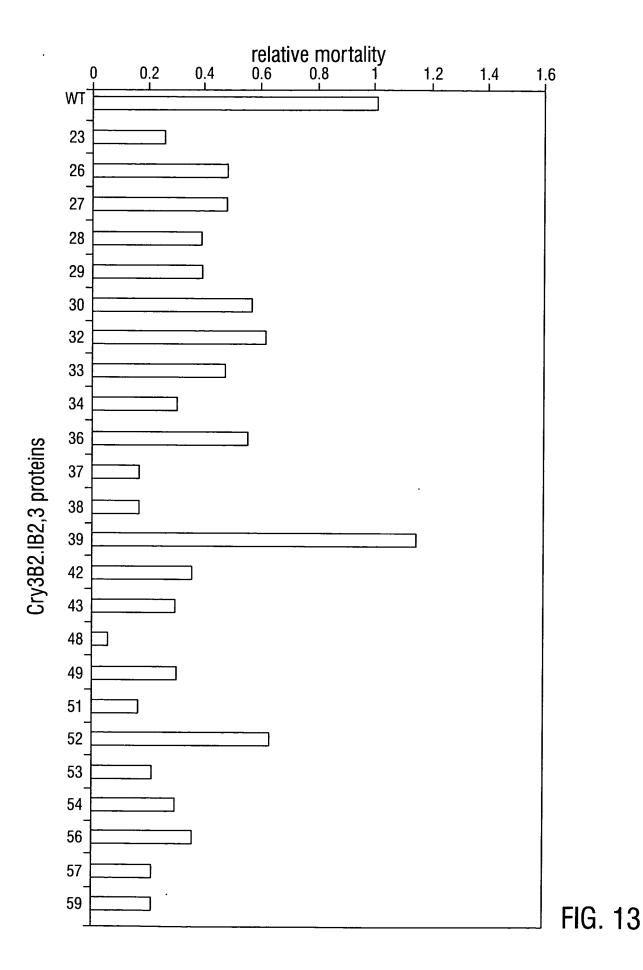
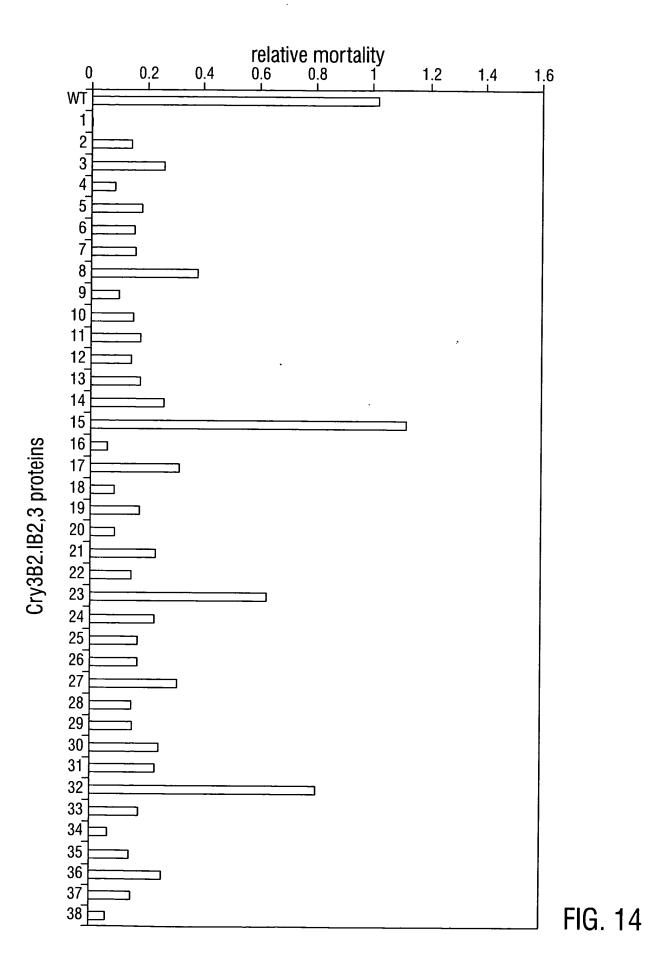


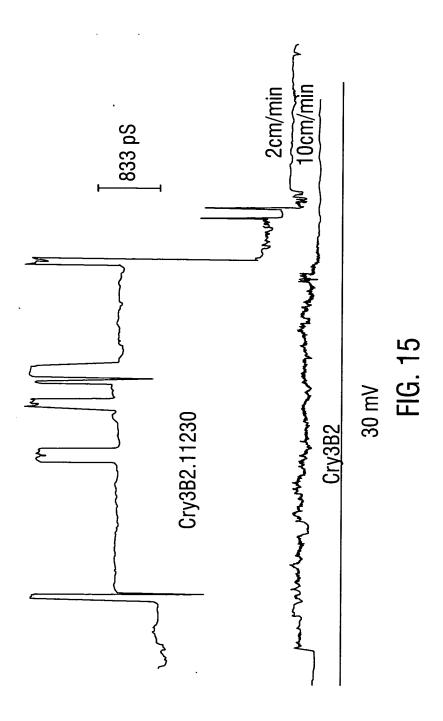
FIG. 10











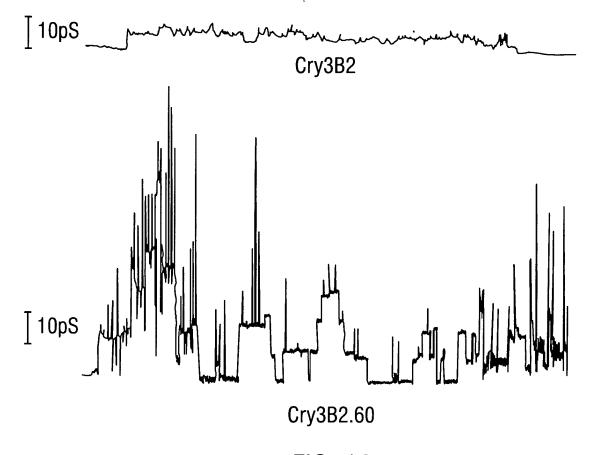


FIG. 16

## **ALIGNMENT OF CRY3 SEQUENCES**

# (Numbered according to Cry3BB) (alpha helices underlined, beta sheets marked with +++'s)

CRY3C: CRYCBB2: CRY3BB: CRY3BA: CRY3A:	MNPN	NRSEHDTIKV NRSEHDTIKV NRSEYDTIKV		NQYPLADNPN NQYPLADNPN NQYPLADNPN	ISTLEELNY ISTLEELNY ISTLEELNY
CRY3C: CRYCBB2: CRY3BB: CRY3BA: CRY3A:	50 KEFLRRTTDNNN KEFLRMTEDSST KEFLRMTEDSST KEFLRMTADNST	TEVLDNSTVKI TEVLDNSTVKI TEVLDSSTVKI	DAVGTGISVVO DAVGTGISVVO DAVGTGISVVO	GQILGVVGVP GQILGVVGVP GQILGVVGVP	FAGALTSFY FAGALTSFY FAGALTSFY
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	100 TNLLNTIWPGE- QSFLDTIWPSDA QSFLNTIWPSDA QSFLNAIWPSDA TNFLNTIWPSE-	ADPWKAFMAQ\ ADPWKAFMAQ\ ADPWKAFMAQ\	VEVLIDKKIEE VEVLIDKKIEE	EYAKSKALAEI EYAKSKALAEI EYAKSKALAEI	LQGLQNNFE LQGLQNNFE LQGLQNNFE
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	150 DYVSALDSWDKT DYVNALNSWKKT DYVNALNSWKKT DYVNALDSWKKA <u>DYVSALSSWQK</u> N	TPLSLRSKRS( TPLSLRSKRS( APVNLRSRRS(	QDRIRELFSQ <i>A</i> QDRIRELFSQ <i>A</i> QDRIRELFSQ <i>A</i>	NESHFRNSMPS NESHFRNSMPS NESHFRNSMPS	SFAVSKFEV SFAVSKFEV SFAVSKFEV

CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	200 LFLPTYAQAANTH LFLPTYAQAANTH LFLPTYAQAANTH LFLPTYAQAANTH LF <u>LTTYAQAANTH</u>	ILLLLKDAQVF@ ILLLLKDAQVF@ ILLLLKDAQVF@	GEEWGYSSEDV GEEWGYSSEDV GEEWGYSSEDI	AEFYHRQLKL AEFYHRQLKL AEFYQRQLKL	TQQYTD TQQYTD TQQYTD
CRY3C: CRYS3BB2: CRY3BB: CRY3BA: CRY3A:	250 HCAKWYKAGLDKL HCVNWYNVGLNGL HCVNWYNVGLNGL HCVNWYNVGLNSL HCVKWYNVGLDKL	RGSTYDAWVKF RGSTYDAWVKF RGSTYDAWVKF	NRFRREMTLT NRFRREMTLT NRFRREMTLT	VLDLIVLFPF VLDLIVLFPF VLDLIVLFPF	YDVRLY YDIRLY YDVRLY
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	300 TKGVKTELTRDVL SKGVKTELTRDIF SKGVKTELTRDIF SKGVKTELTRDIF PKEVKTELTRDVL	TDPIFSLNTLQ TDPIFSLNTLQ TDPIFTLNALQ TDPIVGVNNLR	(EYGPTFLSIE) (EYGPTFLSIE) (EYGPTFSSIE)	NSIRKPHLFD' NSIRKPHLFD' NSIRKPHLFD'	YLQGIE YLQGIE YLRGIE
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	350 FHSRLQPGYFGTD FHTRLQPGYSGKD FHTRLQPGYFGKD FHTRLRPGYSGKD FHTRFQPGYYGND +++++++	SFNYWSGNYVE SFNYWSGNYVE SFNYWSGNYVE	TRPSIGSSKT TRPSIGSSKT TRPSIGSNDT TRPSIGSNDI	ITSPFYGDKS1 ITSPFYGDKS1 ITSPFYGDKS1	TEPVQK TEPVQK TEPIQK
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	400 LEFNGEKVFRAVA LSFDGQKVYRTIA LSFDGQKVYRTIA LSFDGQKVYRTIA LEFNGEKVYRAVA	NTDVAAWPNG- NTDVAAWPNG- NTDIAAFPDG-	KIYFGVTH KVYLGVTH KIYFGVTH	KVDFSQYDDQk KVDFSQYDDQk KVDFSQYDDQk	(NETST (NETST (NETST

CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	440 450 460 470 480 QTYDSKRNVGGIV-FDSIDQLPPITTDESLEKAYSHQLNYVRCFLLQGGR QTYDSKRNNGHVGAQDSIDQLPPETTDEPLEKAYSHQLNYAECFLMQDRR QTYDSKRNNGHVSAQDSIDQLPPETTDEPLEKAYSHQLNYAECFLMQDRR QTYDSKRYNGYLGAQDSIDQLPPETTDEPLEKAYSHQLNYAECFLMQDRR QTYDSKRNVGAVS-WDSIDQLPPETTDEPLEKGYSHQLNYVMCFLMQGSR ++++ ++++++
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	490 500 510 520 530 GIIPVFTWTHKSVDFYNTLDSEKITQIPFVKAFILVNSTSVVAGPGFTGG GTIPFFTWTHRSVDFFNTIDAEKITQLPVVKAYALSSGASIIEGPGFTGG GTIPFFTWTHRSVDFFNTIDAEKITQLPVVKAYALSSGASIIEGPGFTGG GTIPFFTWTHRSVDFFNTIDAEKITQLPVVKAYALSSGASIIEGPGFTGG GTIPVLTWTHKSVDFFNMIDSKKITQLPLVKAYKLQSGASVVAGPRFTGG +++++++++++++++++++++++++++++++++++
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	540 550 560 570 580 DII-KCT-NGSGLTLYVTPAPDLTYSKTYKIRIRYASTSQVRFGIDLGSY NLLFLKESSNSIAKFKVTL-NSAALLQRYRVRIRYASTTNLRLFVQNSNN NLLFLKESSNSIAKFKVTL-NSAALLQRYRVRIRYASTTNLRLFVQNSNN NLLFLKESSNSIAKFKVTL-NSAALLQRYRVRIRYASTTNLRLFVQNSNN DII-QCTENGSAATIYVTPDVSYSQKYRARIHYASTSQITFTLSLDGA
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	590 600 610 620 630 THSISYFDKTMDKGNTLTYNSFNLSSVSRPIEISG-GNKIGVSVGGIGSG DFIVIYINKTMNIDDDLTYQTFDLATTNSNMGFSGDTNELIIGAESFVSN DFLVIYINKTMNKDDDLTYQTFDLATTNSNMGFSGDKNELIIGAESFVSN DFLVIYINKTMNIDGDLTYQTFDFATSNSNMGFSGDTNDFIIGAESFVSN PFNQYYFDKTINKGDTLTYNSFNLASFSTPFELSGNNLQIGVTGLSAG ++++++++++++++++++++++++++++++++++++
CRY3C: CRY3BB2: CRY3BB: CRY3BA: CRY3A:	640 650 DEVYIDKIEFIPMD EKIYIDKIEFIPVQL EKIYIDKIEFIPVQL EKIYIDKIEFIPVQ DKVYIDKIEFIPVN ++++++++++++++++++++++++++++++++++++